

SEQUENCE LISTING

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<120> Compositions and Methods Relating to Prostate Specific Genes and Proteins

<130> DEX-0293

<150> 60/253,176

<151> 2000-11-27

<160> 115

<170> PatentIn version 3.1

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<210> 22
 <211> 208
 <212> DNA

<213> Homo sapien

<400> 22

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<210> 23

<211> 1826

<212> DNA

<213> Homo sapien

<400> 23

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<210> 24
 <211> 545
 <212> DNA
 <213> Homo sapien

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	ttagctaaat atgttttgta	tcacttcaga	gatctaaaac	cagattacta	atcgtgtgta	300
	aggaggcatt ttgtgtgtct	ttgcaatgta	tacaattgga	ttatttggaa	caccattttg	360
	aatgtgtatt tgagagaaag	ctcgccctgtg	ggttttgagt	tgtggtgtaa	tgggtgaacat	420
	gttgccacgt gaaagggcgg	tggatctttg	tgctgattct	tcaggcgtct	tcttgcgat	480
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	aatac					545

<210> 25
 <211> 1637
 <212> DNA
 <213> Homo sapien

<400> 25	gtagaccata tagggatttg	gccctcgagg	aagtaattcg	gcacgagggt	gagacgctga	60
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<210> 26
<211> 503
<212> DNA
<213> Homo sapien

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<400> 26

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 accagatatt aagactagta tgaaacatat gtaattaaga tggtagta ttggtacaag 180
 cTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT 240
 TTTTTTTTTT TTTTTTTTTT TTTTTTgtgc cggggggcag cacaacaac acgaggaagg 300
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 ggccccctcac caagataggg gggcgtgctt acacacaggg ggggcggcga atacaaaagg 420
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<210> 27
 <211> 310
 <212> DNA
 <213> Homo sapien

<400> 27
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 acatTTTTct aaaattgTTT tccagttatt aaatcaaaag agTTtaattg agacatttta 180
 taaaaattat taaaagaattg ctatttatcc tttactctgt tgcaaccagt aaatattttc 240
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 ttatcgtcaa 310

<210> 28
 <211> 318
 <212> DNA
 <213> Homo sapien

<400> 28
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 ttataattga atttgctaatt actctgcact gttagaaaaa atgtatttca gaaaaacaac 120
 atTTTTctaa aattgTTTT cagttattaa atcaaaagag tTTaattgag acatcttata 180
 caaattatta aaagaatgct atttatcctt tactctgttg caaccagtaa atattttcat 240
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<210> 29
 <211> 459

<212> DNA
 <213> Homo sapien

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 <222> (389)..(410)
 <223> a, c, g or t

<400> 29
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 caaagaacat gggaaaatca aagtgttcg agtgggttaa ataatagttt tgggtatc 180
 ctgtttatag aatataaata aaattttcca aataaaatac ctgagttgtc acgcagaaga 240
 aggttaaact gtatttgatt gccagtttta ctggaaaagc ttagtatttt acagtatcac 300
 ccaataatat ttgttttagc caaggtatag gaaaaactaa aataaattgt ataggttgaa 360
 aaaaaaaaaa aaaaaaaaaa aagcttgtnn nnnnnnnnnn nnnnnnnnnn aagtccagca 420
 catggcgccg tacagtgagc cgagctcgac catgatccc 459

<210> 30
 <211> 504
 <212> DNA
 <213> Homo sapien

<400> 30
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 acccccgagg taagaattat taaaagtgtg tgggtgtttt gtggcgtgtt actatagcct 180
 caagcaagaa agcccttcca taggattatc ttattttctc atctgggctg aagacgctta 240
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 atcttgggat gtcagtccta acacagagca tgaatgttat ttaattattt aaaagttttt 420
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<210> 31
 <211> 1044
 <212> DNA
 <213> Homo sapien

<400> 31
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 ccgaggtaag aattattaaa agtgtgtggg tgttttgtgg cgtgttacta tagcctcaag 540
 caagaaagcc cttccatagg attatcttat ttcttcatct gggctgaaga cgcttactag 600
 cactaggagg gtttgagagc caagaaacag tgaggtagaa aaagaaactt actatttctc 660
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<210> 32
 <211> 790
 <212> DNA
 <213> Homo sapien

<400> 32
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 gttaatgttt agcttttgta atgctattta aacacaccta aggtgccttt ccctcatctc 180
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 gaataattaa tacaattcag ttgttttttc aattattcta ataaaaaagg aaattttctc 420
 aaaaaaaaa caaaaaaaa aaaaaaaaa aaaaaacaaa agcacaaaaa aaaacaaaaa 480
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 <211> 904
 <212> DNA
 <213> Homo sapien

<400> 33
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<210> 34
 <211> 835
 <212> DNA
 <213> Homo sapien

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aacaacaca gtcattccca atctttaaca acacctcgta taacaccaa cacac 835

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<210> 35
<211> 868
<212> DNA
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<223>

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<223> a, c, g or t

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ggaaaatgaa aatdddactg aagtaaagta aaatdddagcc tagtagctca gctgatcaaa 480
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<210> 36
 <211> 584
 <212> DNA
 <213> Homo sapien

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<210> 37
 <211> 1184
 <212> DNA
 <213> Homo sapien

<400> 37
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 <213> Homo sapien

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 <211> 1391
 <212> DNA
 <213> Homo sapien

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 <213> Homo sapien

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<210> 41
 <211> 758
 <212> DNA
 <213> Homo sapien

<400> 41
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 <212> DNA
 <213> Homo sapien

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 <212> DNA
 <213> Homo sapien

<400> 43
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<211> 809
<212> DNA
<213> Homo sapien

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ggagaacgaa gagcgaggcg agagcagag 809

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<211> 745
<212> DNA
<213> Homo sapien

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<210> 46
 <211> 554
 <212> DNA
 <213> Homo sapien

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<210> 47
 <211> 877
 <212> DNA
 <213> Homo sapien

<400> 47	
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gatcttaaaa	taacaaactg atctgaacct taatgaactg ctgcatgacc tgggtgtttct 180
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<213> Homo sapien

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<223> a, c, g or t

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<210> 49
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 <212> DNA
 <213> Homo sapien

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 <213> Homo sapien

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<210> 51
<211> 723
<212> DNA
<213> Homo sapien

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<210> 52
<211> 689
<212> DNA
<213> Homo sapien

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 <212> DNA
 <213> Homo sapien

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 <213> Homo sapien

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 <213> Homo sapien

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 <213> Homo sapien

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<211> 694
<212> DNA
<213> Homo sapien

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<212> DNA
<213> Homo sapien

<400> 58
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<211> 1010

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<213> Homo sapien

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aaacatctac tttgaaacat ctactgggcg agaccaggag tgatggctca gcctgtaatt      300
ctggaatttc gggaggccga ggcaggaaga ttccttgagc acaggagttc cagaccagcc      360
tggtgcaatg tatgcaagac gctgtctcta ttataacaat aaaatttttt tactaaaagt      420
aaaaataaaa taaaacaaat taaaaataat aatcctttgc tctcgcccga aaccctctta      480
acccaatttc tgtgcgagtt ttctctcca ctgtgggggc ggtcgaacac tgcgctcttt      540
gagggcccca atttgccctt atttgggggg gctgtttttc aaattctctg ggccggcggt      600
ttaccacggt ctggcttggg aacccttggg gtttcccatt tategctttg agccatcccc      660
ttcggaaga                                         669

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<210> 69
<211> 420
<212> DNA
<213> Homo sapien

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<400> 69
gccttccttc ctctcctagc ctaaggcgtg caaacagagc gccactggga ggctgaaacc      60
tttaggccga tgctgcttg caaggtcagg caagctggat tctgggtccc acctttgcag      120
agagaacagc gatgttgctg gccatttct cagatcaagg accggcccat cttactacct      180
ccaagagtgc ttttctctct aataagaaaa catctacttt gaaacatcta ctgggcgaga      240
ccaggagtga tggctcagcc tgtaattctg gaatttcggg aggccgaggc aggaagattc      300
cttgagcaca ggagttccag accagcctgg gcaatgtagc aagacgctgt ctctatttat      360
acaataaaat ttttttaaaa aaggaaaaaa aaaaaaaaaa aaaattgtgt gtgggggggat      420

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<210> 70
<211> 30
<212> PRT
<213> Homo sapien

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<400> 70

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Met Ala Asp Phe Leu Val Phe Arg Gly Gln Phe Gly Ile Tyr Ile Phe
1           5           10          15

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Leu Glu Arg Asn Leu Gln Cys Phe Gln Ile Tyr Trp Thr Gly
20          25          30

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<210> 71
 <211> 37
 <212> PRT
 <213> Homo sapien

<400> 71

Met Gly Arg Tyr His Ala Leu Ser Val Ser Thr Tyr Leu Ile Lys Glu
 1 5 10 15

Ala Phe Leu Leu Gly Val Ser Pro Gln Arg Met Val Leu Leu Met His
 20 25 30

Cys Ser Ala Arg Arg
 35

<210> 72
 <211> 52
 <212> PRT
 <213> Homo sapien

<400> 72

Met Ser Gln Lys Leu Ser Phe Ser Gln Ala Phe Cys Phe Ile Leu Ile
 1 5 10 15

Ser Ser Asn Asp Asn Leu Leu Tyr Pro Ile Asn His Leu Ser Leu Thr
 20 25 30

Thr Arg Pro Ser Pro Thr Ser Leu Gln Tyr Phe Lys Ser Ile Ile Lys
 35 40 45

Ile Ile Arg Ile
 50

<210> 73
 <211> 53
 <212> PRT
 <213> Homo sapien

<400> 73

Met Asn Thr Val Asp Ile Gly Gln Thr Ser Glu His Thr Phe Ile Gln
 1 5 10 15

Lys Ala Phe Lys Cys Tyr Leu Leu Trp Asn Lys Gly Asn Ser Gly Gln
 20 25 30

<210>	74
<211>	32
<212>	PRT
<213>	Homo sapien

Ala Phe Ser Asp Gln Ala Glu Asn Trp Glu Ile Leu Leu Arg Arg Asn
20 25 30

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<210> 75
<211> 49
<212> PRT
<213> Homo sapien
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Met Leu Lys Trp Thr Gly Phe Trp Val Val Trp Val Ala Phe Lys Lys
1 5 10 15

Ile Ser Ala Ser Phe Gln Val Ile Tyr Asn Leu Asn Phe Glu Ile Leu
20 25 30

Leu Cys Val Asn His Gly Ile Leu Pro Ser Gly Lys Glu Asn Cys Asn
35 40 45

val

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<210> 76
<211> 42
<212> PRT
<213> Homo sapien
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<400> 76

Met Ser Leu Leu Phe Ser Val Lys Thr Ile Val Lys Phe Val Val Glu
1 5 10 15

Lys Ser Leu Arg Val Gly Val Asp Ser Ser Asp Val Cys Gly Ser Gln
20 25 30

Val Phe Tyr Ser Leu Ser Gly Ser Ala Val
 35 40

<210> 77
 <211> 43
 <212> PRT
 <213> Homo sapien

<400> 77

Met Phe Phe Phe Gln Cys Phe Ser Leu His Thr Tyr Ile Lys Ile Phe
 1 5 10 15

Lys Leu Leu Asn Tyr Lys Leu Arg Phe Ser Gln Phe Phe Tyr Leu Val
 20 25 30

Leu Phe Ser Ala Gln Cys Ser Asn Val Arg Gly
 35 40

<210> 78
 <211> 28
 <212> PRT
 <213> Homo sapien

<400> 78

Met Asp Lys Ile Asn His Glu Asn Leu Phe Ile Ile Ser Ser Ile Asn
 1 5 10 15

Ile Ser Arg Cys Phe Val Ile Leu Ser Phe Ser His
 20 25

<210> 79
 <211> 115
 <212> PRT
 <213> Homo sapien

<400> 79

Leu Ile Lys Arg Thr Val His Ile Leu Ile Leu Leu Phe Tyr Leu Phe
 1 5 10 15

Phe Phe Phe Leu Arg Trp Ser Phe Thr Leu Val Phe Thr Ala Gly Val
 20 25 30

Arg Trp Leu Asn Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys
 35 40 45

Gln Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp Asn Tyr Arg Tyr Ala
 50 55 60

Pro Pro Arg Leu Ala Ile Phe Val Leu Leu Val Glu Thr Gly Phe His
 65 70 75 80

His Val Gly Gln Ala Gly Leu Glu His Leu Ile Ser Gly Gly Pro Pro
 85 90 95

Thr Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His Thr
 100 105 110

Trp Pro Ser
 115

<210> 80
 <211> 33
 <212> PRT
 <213> Homo sapien

<400> 80

Met Val Ile Leu Gly Leu Ile Ser Ser Ser Ile Tyr Ile Leu Glu Leu
 1 5 10 15

Ala Cys Trp Val Asn Val Lys Asn Ser Trp Asp Phe Ala Gln Ile His
 20 25 30

Ile

<210> 81
 <211> 45
 <212> PRT
 <213> Homo sapien

<400> 81

Met Tyr Leu Phe Thr Ser Ile Leu Val Glu Asn Gln Asp Tyr Phe Phe
 1 5 10 15

Asp Tyr Gly Thr Tyr Arg Ser Asp Phe Leu Ser Phe Leu Cys Lys Tyr
 20 25 30

Thr His Asn Ala Ser Val Phe Arg Met Ile Ser Pro Lys
 35 40 45

<210> 82

<211> 43
 <212> PRT
 <213> Homo sapien

<400> 82

Met Ser Thr Pro His Arg Glu Gly Gly Thr Cys Leu Cys Gly Glu Asp
 1 5 10 15

Phe Phe Glu Thr Leu Asn Met Leu Cys Ser Gly Lys Gly Lys Ile Gln
 20 25 30

Lys Tyr Arg Thr Lys Lys Asn Ile Gly Ser Leu
 35 40

<210> 83
 <211> 43
 <212> PRT
 <213> Homo sapien

<400> 83

Gly Trp Val Gln Trp Leu Thr Pro Val Ile Leu Ala Leu Trp Glu Ala
 1 5 10 15

Glu Ala Asn Glu Ser Pro Glu Asp Arg Asn Ser Arg Pro Ala Trp Ala
 20 25 30

Thr Trp Ala Asn Pro Ile Ser Thr Lys Asn Thr
 35 40

<210> 84
 <211> 82
 <212> PRT
 <213> Homo sapien

<400> 84

Met Ile Pro Lys Asp Leu Glu Tyr Val His Glu Met Ile Lys Arg His
 1 5 10 15

Phe Ser Glu Ser Ala Arg Arg Arg Leu Lys Asn Gln His Lys Asp Pro
 20 25 30

Pro Pro Phe His Val Ala Thr Cys Ser Pro Leu His His Asn Ser Lys
 35 40 45

Pro Thr Gly Glu Leu Ser Leu Lys Tyr Thr Phe Lys Met Val Phe Gln
 50 55 60

Ile Ile Gln Leu Tyr Thr Leu Gln Arg His Thr Lys Cys Leu Leu Thr
 65 70 75 80

His Asp

<210> 85
 <211> 67
 <212> PRT
 <213> Homo sapien

<400> 85

Met Asp Ile Leu Val Ser Glu Cys Ser Ala Arg Leu Leu Gln Gln Glu
 1 5 10 15

Glu Glu Ile Lys Ser Leu Thr Ala Glu Ile Asp Arg Leu Lys Asn Cys
 20 25 30

Gly Cys Leu Gly Ala Ser Pro Asn Leu Glu Gln Leu Gln Glu Glu Asn
 35 40 45

Leu Lys Leu Lys Tyr Arg Leu Asn Ile Leu Arg Lys Ser Leu Gln Ala
 50 55 60

Glu Arg Asn
 65

<210> 86
 <211> 14
 <212> PRT
 <213> Homo sapien

<400> 86

Met Phe His Thr Ser Leu Asp Ile Trp Leu Gly Leu Phe Val
 1 5 10

<210> 87
 <211> 30
 <212> PRT
 <213> Homo sapien

<400> 87

Met Tyr Phe Arg Lys Thr Lys His Phe Ser Lys Ile Val Phe Gln Leu
 1 5 10 15

Leu Asn Gln Lys Ser Leu Ile Glu Thr Ser Tyr Thr Asn Tyr

20

25

30

<210> 88
 <211> 37
 <212> PRT
 <213> Homo sapien

<400> 88

Met Leu Phe Asn Tyr Leu Lys Val Phe Cys Arg Phe Lys Ile Glu Arg
 1 5 10 15

Ile Gly Lys Pro Met Gln His Thr Ala Pro Tyr Thr Glu Ala Ala Leu
 20 25 30

Leu Thr Cys Gly Pro
 35

<210> 89
 <211> 104
 <212> PRT
 <213> Homo sapien

<400> 89

Met Gly Asp Thr Arg Val Leu Arg Glu Pro Val Ala Tyr Ser Ala Ser
 1 5 10 15

Ser Leu Cys Val Ser Leu Cys Gly Trp Ser Val Ala Leu Ser Leu Leu
 20 25 30

Ile Trp Phe Val Pro Ala Pro Pro Ser Phe Glu Val Val Leu Ser Thr
 35 40 45

Leu Arg Arg Leu Gly Gly Gly Gln Arg Arg Gly Leu Phe Cys Cys Ser
 50 55 60

Cys Cys Phe Leu Pro Leu Leu Phe Cys Val Val Cys Phe Cys Phe Phe
 65 70 75 80

Leu Cys Phe Cys Phe Leu Phe Phe Phe Phe Phe Phe Gly Phe Phe Leu
 85 90 95

Arg Lys Phe Pro Phe Leu Leu Glu
 100

<210> 90
 <211> 26

<212> PRT
 <213> Homo sapien

<400> 90

Met Tyr Val Glu Gly Leu Lys His Tyr Tyr Ile Leu Asn Ser Ser Val
 1 5 10 15

Leu Asp Leu Cys Val Arg Asn Thr Tyr Val
 20 25

<210> 91
 <211> 38
 <212> PRT
 <213> Homo sapien

<400> 91

Met Ser Tyr Leu Val Asn Arg Lys Thr Val Arg Glu His Thr Cys Asp
 1 5 10 15

Leu Phe Ser Arg Leu Val Cys Ser Leu Ser Ile Gly Phe Thr Asn Val
 20 25 30

Leu Trp Gln Ile Glu Cys
 35

<210> 92
 <211> 60
 <212> PRT
 <213> Homo sapien

<400> 92

Met Val Leu Cys Ser Ile Met Phe Val Ala Ser Ser Gly Met Thr Gln
 1 5 10 15

Ile Ala Glu Ser Trp Leu Gly Leu Ser Leu Leu Met Leu Ser Pro Trp
 20 25 30

Arg Asp Ser Phe Gly Ala Ser Leu Pro Met Ser Trp His Cys Gly Ser
 35 40 45

Leu Pro Arg Gly Leu Tyr Ser Leu Thr Asn Leu Val
 50 55 60

<210> 93
 <211> 46
 <212> PRT
 <213> Homo sapien

<400> 93

Met Pro Tyr Ser Ser Leu Glu Phe Pro Ile Pro Ala Arg Leu Thr Glu
 1 5 10 15

Leu Ser Ser Phe Asn Pro Gly Pro Leu Leu Phe Leu Arg Pro Leu Thr
 20 25 30

Leu Ser Cys Ser Tyr Cys Pro Pro Phe Pro Pro Phe Phe Arg
 35 40 45

<210> 94

<211> 45

<212> PRT

<213> Homo sapien

<400> 94

Met Gly Val Leu Arg Ala Gly Thr Val Ile Cys Phe Val Phe Phe Lys
 1 5 10 15

Glu Val Phe Val Phe Ser Ser Val Ala Val Thr Gln Lys Glu Pro Asp
 20 25 30

Ala Phe Leu Phe Asn Leu Glu Gly Val Leu Gly Met Gly
 35 40 45

<210> 95

<211> 79

<212> PRT

<213> Homo sapien

<400> 95

Met Leu Leu Phe Ile Glu Val Glu Trp Lys Lys Asp Asp Ser Val Thr
 1 5 10 15

Lys Thr Thr Thr Glu Thr Lys Gly Thr His Thr Thr Arg Glu Arg Lys
 20 25 30

Gln Val Leu Leu Leu Ala Gly Pro Arg Glu Ala Ser Gly Arg Leu Ser
 35 40 45

Ser Arg Arg Ala Pro Ser Ala Leu Gly Pro Asn Pro Met Trp Phe Gln
 50 55 60

Ser Arg Pro Ser Thr Phe Ala Ala Thr Val Ser Ile Ser Gly Pro
 65 70 75

<210> 96
 <211> 600
 <212> PRT
 <213> Homo sapien

<400> 96

Met Gly Lys Lys Leu Asp Leu Ser Lys Leu Thr Asp Glu Glu Ala Gln
 1 5 10 15

His Val Leu Glu Val Val Gln Arg Asp Phe Asp Leu Arg Arg Lys Glu
 20 25 30

Glu Glu Arg Leu Glu Ala Leu Lys Gly Lys Ile Lys Lys Glu Ser Ser
 35 40 45

Lys Arg Glu Leu Leu Ser Asp Thr Ala His Leu Asn Glu Thr His Cys
 50 55 60

Ala Arg Cys Leu Gln Pro Tyr Gln Leu Leu Val Asn Ser Lys Arg Gln
 65 70 75 80

Cys Leu Glu Cys Gly Leu Phe Thr Cys Lys Ser Cys Gly Arg Val His
 85 90 95

Pro Glu Glu Gln Gly Trp Ile Cys Asp Pro Cys His Leu Ala Arg Val
 100 105 110

Val Lys Ile Gly Ser Leu Glu Trp Tyr Tyr Glu His Val Lys Ala Arg
 115 120 125

Phe Lys Arg Phe Gly Ser Ala Lys Val Ile Arg Ser Leu His Gly Arg
 130 135 140

Leu Gln Gly Gly Ala Gly Pro Glu Leu Ile Ser Glu Glu Arg Ser Gly
 145 150 155 160

Asp Ser Asp Gln Thr Asp Glu Asp Gly Glu Pro Gly Ser Glu Ala Gln
 165 170 175

Ala Gln Ala Gln Pro Phe Gly Ser Lys Lys Lys Arg Leu Leu Ser Val
 180 185 190

His Asp Phe Asp Phe Glu Gly Asp Ser Asp Asp Ser Thr Gln Pro Gln
 195 200 205

Gly His Ser Leu His Leu Ser Ser Val Pro Glu Ala Arg Asp Ser Pro
 210 215 220

Gln Ser Leu Thr Asp Glu Ser Cys Ser Glu Lys Ala Ala Pro His Lys
 225 230 235 240

Ala Glu Gly Leu Glu Glu Ala Asp Thr Gly Ala Ser Gly Cys His Ser
 245 250 255

His Pro Glu Glu Gln Pro Thr Ser Ile Ser Pro Ser Arg His Gly Ala
 260 265 270

Leu Ala Glu Leu Cys Pro Pro Gly Gly Ser His Arg Met Ala Leu Gly
 275 280 285

Thr Ala Ala Ala Leu Gly Ser Asn Val Ile Arg Asn Glu Gln Leu Pro
 290 295 300

Leu Gln Tyr Leu Ala Asp Val Asp Thr Ser Asp Glu Glu Ser Ile Arg
 305 310 315 320

Ala His Val Met Ala Ser His His Ser Lys Arg Arg Gly Arg Ala Ser
 325 330 335

Ser Glu Ser Gln Ile Phe Glu Leu Asn Lys Arg Ile Ser Ala Val Glu
 340 345 350

Cys Leu Leu Thr Tyr Leu Glu Asn Thr Val Val Pro Pro Leu Ala Lys
 355 360 365

Gly Leu Gly Ala Gly Val Arg Thr Glu Ala Asp Val Glu Glu Glu Ala
 370 375 380

Leu Arg Arg Lys Leu Glu Glu Leu Thr Ser Asn Val Ser Asp Gln Glu
 385 390 395 400

Thr Ser Ser Glu Glu Glu Glu Ala Lys Asp Glu Lys Ala Glu Pro Asn
 405 410 415

Arg Asp Lys Ser Val Gly Pro Leu Pro Gln Ala Asp Pro Glu Val Gly
 420 425 430

Thr Ala Ala His Gln Thr Asn Arg Gln Glu Lys Ser Pro Gln Asp Pro

435

440

445

Gly Asp Pro Val Gln Tyr Asn Arg Thr Thr Asp Glu Glu Leu Ser Glu
 450 455 460

Leu Glu Asp Arg Val Ala Val Thr Ala Ser Glu Val Gln Gln Ala Glu
 465 470 475 480

Ser Glu Val Ser Asp Ile Glu Ser Arg Ile Ala Ala Leu Arg Ala Ala
 485 490 495

Gly Leu Thr Val Lys Pro Ser Gly Lys Pro Arg Arg Lys Ser Asn Leu
 500 505 510

Pro Ile Phe Leu Pro Arg Val Ala Gly Lys Leu Gly Lys Arg Pro Glu
 515 520 525

Asp Pro Asn Ala Asp Pro Ser Ser Glu Ala Lys Ala Met Ala Val Pro
 530 535 540

Tyr Leu Leu Arg Arg Lys Phe Ser Asn Ser Leu Lys Ser Gln Gly Lys
 545 550 555 560

Asp Asp Asp Ser Phe Asp Arg Lys Ser Val Tyr Arg Gly Ser Leu Thr
 565 570 575

Gln Arg Asn Pro Asn Ala Arg Lys Gly Met Ala Ser His Thr Phe Ala
 580 585 590

Lys Pro Val Val Ala His Gln Ser
 595 600

<210> 97
 <211> 124
 <212> PRT
 <213> Homo sapien

<400> 97

Met Ser Phe Leu Trp Glu Ala Pro Ile Thr Pro Pro Ile Met Arg Gly
 1 5 10 15

Gly Tyr His Ile Lys Leu Arg Arg Ala Gly Val Ser Asn Lys Gln Val
 20 25 30

Gly Gly Arg Glu His Lys Arg Val Gly Val His Gln Ile Leu Leu Trp

35

40

45

Ala Ser Gly Ser His Ser Pro Ser Phe Trp Ser Ser Thr Val Ala Glu
50 55 60

Val Arg Gly Arg Gly Gly Glu Lys Gln Ala Asp Glu Gly Arg Arg Ala
65 70 75 80

Glu Glu Glu Glu Gly Glu Glu Ala Arg Glu Gly Lys Thr Glu Glu Arg
85 90 95

Gly Gly Gly Ser Gly Arg Gly Gly Gly Glu Arg Arg Gly Gly Gln Arg
100 105 110

Gly Gly Gly Arg Thr Lys Ser Glu Ala Arg Ala Glu
115 120

<210> 98

<211> 102

<212> PRT

<213> Homo sapien

<400> 98

Met Cys Arg Val Met Phe Phe Asn Lys Ser Arg Glu Val Phe Ser His
1 5 10 15

Cys Phe Ile Ser Ile Phe Phe Ser Ala Val Phe Cys Pro Leu Leu Pro
20 25 30

Phe Pro Leu Gly Val Cys Trp Cys Ser Ile Gly Gly Ser Leu Thr Phe
35 40 45

Ser Leu Glu Thr Ile Ser Tyr Phe Leu Ser Phe Leu Phe Ile Tyr Arg
50 55 60

Ser Ser Glu Leu His Asn Ser Leu Ser Asp Pro Ser Ile Leu Ala Asp
65 70 75 80

Pro Ile Phe Thr Tyr Thr Ile Val Leu Phe Arg Ala His Ile His Ile
85 90 95

Pro Val Thr Leu Pro Val
100

<210> 99

<211> 87
 <212> PRT
 <213> Homo sapien

<400> 99

Met Asn Lys Arg Met Arg Met Arg Thr Met Ile Val Ile Glu Leu Trp
 1 5 10 15

Tyr Pro Ser Phe Phe Phe Phe Phe Phe Gly Gly Gly Gly Pro Gly Ser
 20 25 30

Leu Leu Gln Pro Gln Arg Thr Lys Phe Pro Arg Gly Glu Gly Ala Pro
 35 40 45

His Gly Gly Ser Arg Val Pro Pro Leu Thr Ala Pro Arg Ala Gly Gly
 50 55 60

Leu Thr Phe Thr Leu Leu Leu Pro Arg Ala Arg Ala Cys Phe Pro Gln
 65 70 75 80

Gly Arg Ala Thr Thr Pro Trp
 85

<210> 100
 <211> 71
 <212> PRT
 <213> Homo sapien

<400> 100

Met Ser Phe Thr Asn Leu Lys Ser Met Tyr Gln Glu Gly His Ala Phe
 1 5 10 15

Ser Gly Gly Tyr Arg Gly Glu Ser Leu Leu Leu Pro Phe Leu Ala Ser
 20 25 30

Lys Asn Cys Ile Ser Cys Ile Pro Trp Ile Met Ala Pro Cys Pro Leu
 35 40 45

Leu Ile Gln Arg Cys Gly Asn Val Gln Met Leu Phe Ala Gly Leu Ser
 50 55 60

His Cys Phe Leu Leu Leu Trp
 65 70

<210> 101
 <211> 45

<212> PRT
 <213> Homo sapien

<400> 101

Met Lys Val Lys Ser Gly Ser Leu Gly Ala Pro Thr Val Pro Leu Val
 1 5 10 15

Lys Ala Leu Ser Ser Leu His Cys Phe Pro Ala Leu Pro Ser His Leu
 20 25 30

Ile Ser Met Arg Ser Cys Arg Asp Cys Ser Leu Arg Trp
 35 40 45

<210> 102
 <211> 48
 <212> PRT
 <213> Homo sapien

<400> 102

Met Ile Pro Gln Leu Val Arg Ala Gly Ser Leu Leu Arg Pro His Ser
 1 5 10 15

Gly Ile Gly Leu Ala Trp Ser Gly Arg Gly Thr Asn Thr Pro Val Lys
 20 25 30

Ser Ile Gly Trp His Lys Thr Tyr Gln Leu Thr Arg Met Glu Arg Phe
 35 40 45

<210> 103
 <211> 47
 <212> PRT
 <213> Homo sapien

<400> 103

Met Gly Leu His Thr Met Leu Lys Asn Gln Asp Asn His Lys Ile Glu
 1 5 10 15

Lys Leu Ile Ile Gln Trp Glu Ile Ser Asn Lys Gln Leu Ser Cys Ala
 20 25 30

Ile Ser Tyr Ile Asn Ile Ser Leu Glu Gln Cys Pro Leu Val Phe
 35 40 45

<210> 104
 <211> 80
 <212> PRT
 <213> Homo sapien

<400> 104

Met Ser Arg Leu Lys Lys Ser Pro Gly Glu Lys Gly Met Arg Gln Arg
 1 5 10 15

Glu Glu Lys Arg Gly Gly Arg Gln Gly Gly Arg Arg Arg Lys Lys Arg
 20 25 30

Arg Lys Lys Gly Gly Gly Lys Arg Arg Glu Lys Lys Glu Glu Arg Arg
 35 40 45

Lys Lys Lys Glu Gly Gly Ala Ala Gly Gly Glu Arg Gly Ala Arg Glu
 50 55 60

Gly Arg Ser Glu Ser Arg Gly Gly Glu Arg Glu Gly Glu Gly Lys Gly
 65 70 75 80

<210> 105

<211> 53

<212> PRT

<213> Homo sapien

<400> 105

Met Asp Gln Gln Arg Asn Val Leu Phe Tyr Arg Gly Leu His Leu Thr
 1 5 10 15

Glu Thr Lys Ile Thr Cys Leu Ala Ser Cys Ser Gly His Ser Arg Ser
 20 25 30

Asn Ala Leu Ala Cys Ser His Ser Leu Leu Ser His Gly Ser Pro Ala
 35 40 45

Leu Ala Met Ser Leu
 50

<210> 106

<211> 86

<212> PRT

<213> Homo sapien

<400> 106

Met Asp Phe Phe Phe Phe Phe Leu Glu Arg Glu Ser Phe Leu Cys Ala
 1 5 10 15

Gln Val Trp Ser Pro Trp Trp Arg Asp Leu Gly Ser Cys Ala Thr Phe
 20 25 30

Val Leu Gln Leu Arg Val Phe Asn Ile Leu Lys Val Ile Phe Phe Asp
 35 40 45

Gln Leu Ser Glu Val Lys Val Arg Ser Pro Ile Gly Gly Gly Asp Phe
 50 55 60

Arg Arg Pro Phe Leu Val Thr Phe Ser Phe Tyr Ser Arg Asp Asn Ile
 65 70 75 80

Phe Val His Tyr Asn Gln
 85

<210> 107

<211> 361

<212> PRT

<213> Homo sapien

<400> 107

Leu Leu Pro Arg Leu Glu Cys Ser Gly Thr Ile Met Ala His Cys Arg
 1 5 10 15

Leu Lys Leu Leu Gly Ser Gly Asp Leu Pro Ala Ser Ala Ser Arg Val
 20 25 30

Gly Gly Thr Thr Gly Met Arg Gln Pro Thr Met Gly Gly Thr Ser Cys
 35 40 45

Ala His Phe Gln Ile Gly Leu Phe Pro Val Ala Asn Phe Glu Arg Ser
 50 55 60

Phe Tyr Ile Leu Gly Thr Ser Pro Leu Leu Asp Leu Trp Leu Ile Asn
 65 70 75 80

Met Tyr Phe Phe Ala Leu Leu Ile His Ile Val Leu Phe Leu Asn Arg
 85 90 95

Asp Ser Leu Cys Cys Pro Gly Ala Ser Leu Thr Leu Gly Leu Glu Ala
 100 105 110

Phe Ala Cys Leu Ser Leu Pro Lys Cys Trp Asp Tyr Thr Tyr Gly Pro
 115 120 125

Leu Leu Leu Pro Ile Asp Ile Phe Leu Gln Val Cys Cys Leu Ser Phe
 130 135 140

Tyr Phe Leu Asn Thr Val Phe Gln Arg Ala Glu Val Leu Ile Phe Phe
145 150 155 160

Gln Trp Pro Val Tyr Leu Arg Trp Ser Leu His Ser Val Ala Gln Ala
165 170 175

Gly Val Gln Trp Cys Asn Leu Gly Ser Leu Gln Pro Leu Pro Pro Arg
180 185 190

Phe Arg Arg Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp Asp His Arg
195 200 205

His Ala Pro Pro Cys Leu Ala Asn Phe Leu Phe Phe Lys Phe Leu Val
210 215 220

Asp Gln Ser Phe Thr Met Leu Ala Arg Leu Val Leu Asn Ser Ala Pro
225 230 235 240

Ser Gly Asp Leu Pro Ala Pro Ala Ser Gln Ser Ala Gly Ile Thr Gly
245 250 255

Val Arg His Cys Thr Trp Pro Lys Ser Phe Lys Phe Ala Asp Ser His
260 265 270

Ile Gly Leu Ala Phe His Phe Ala Phe Phe Phe Phe Phe Phe Phe
275 280 285

Ala Val Ala Ser His Pro Ile Ala Gln Ala Gly Val Gln Trp Arg Asp
290 295 300

Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys Gln Phe Leu Cys
305 310 315 320

Leu Ser Leu Pro Gly Ser Trp Asp Tyr Arg Arg Ala Pro Pro Arg Gln
325 330 335

Ala Asn Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Thr
340 345 350

Gly Trp Ser Gln Thr Pro Asp Leu Arg
355 360

<210> 108

<211> 93
 <212> PRT
 <213> Homo sapien

<400> 108

Met Leu Ile Leu Ile Thr Leu Ser Arg Cys Cys Val Val Phe Pro Phe
 1 5 10 15

Tyr Asn Tyr Cys Ser Phe Pro Ser Pro Leu Arg Arg Ile Ser Asn Leu
 20 25 30

Gly Cys Ile Leu Arg Pro Tyr Lys Tyr Asn Asp Thr Met Ala Thr Leu
 35 40 45

Leu Leu Gln Pro Ser Lys Ile Asp Val Gln Ala Arg Tyr Tyr Pro Arg
 50 55 60

Phe Val Asp Glu Lys Thr Lys Val Gln Ser Ser Ser Leu Ser Val Leu
 65 70 75 80

Phe Ser Thr Arg Glu Asp Phe Cys Pro Pro Gly Asp Ile
 85 90

<210> 109
 <211> 56
 <212> PRT
 <213> Homo sapien

<400> 109

Met Phe Arg Pro Phe Ser Gly Leu Ser Leu Phe Phe Phe Leu Asn Asn
 1 5 10 15

Ser Phe Thr Glu Ala Val His Phe Glu Arg Leu Lys Tyr Leu Ala Leu
 20 25 30

Tyr Pro Lys Ser Phe Leu Leu Ser Leu Ser Gln Ile Leu Ser Glu Lys
 35 40 45

Met Thr Asn Gly Gly Arg Pro Asp
 50 55

<210> 110
 <211> 60
 <212> PRT
 <213> Homo sapien

<400> 110

Met Leu Pro Tyr Ile Leu Thr Tyr Val Ser Lys Ile Thr Thr Ile His
1 5 10 15

His Trp Pro Ile Ser Ala Leu Gly Ser Met Leu Val Val Leu Ser Ser
20 25 30

Tyr Lys Cys Leu Met Arg Leu Glu Ile Gly Val Val Ile Ser Ile Tyr
35 40 45

Asp Gly Asp Met Thr Asn Leu Leu Leu Val Leu Ile
50 55 60

<210> 111
<211> 49
<212> PRT
<213> Homo sapien

<400> 111

Met Glu Leu Ser Ala Leu Met Gly Lys Lys Pro Cys Phe Val Phe Cys
1 5 10 15

Ser Leu Phe Phe Leu Ser Pro Phe Leu Ser Phe Met Asp Trp Arg His
20 25 30

Asp Leu Leu Gln Pro Ser Ile Leu Gly Ala His Pro Ser His Pro Gly
35 40 45

Cys

<210> 112
<211> 53
<212> PRT
<213> Homo sapien

<400> 112

Met Phe Phe Leu Ile Leu Ile Val Trp His Lys Val Leu Ser Gln Arg
1 5 10 15

Glu Val Thr Asp Asn Ser Phe Ile Tyr Thr Leu Ile Arg Gly Ile Lys
20 25 30

Leu Ser Lys Tyr Phe Ser Lys Phe Gln Thr Glu Leu Val Thr Asn Pro
35 40 45

Leu Leu Arg His Leu
50

<210> 113
<211> 37
<212> PRT
<213> Homo sapien

<400> 113

Met Arg Gln Arg Ser Glu Tyr Ile Arg Gln Thr Glu Ala Gly Thr Lys
1 5 10 15

Asn Gly Thr Phe Phe Ser Leu Asp Glu Thr Asn Val Arg Leu Ser Cys
20 25 30

Asp Lys Leu Gly Leu
35

<210> 114
<211> 59
<212> PRT
<213> Homo sapien

<400> 114

Met Gly Ala Gln His Arg Cys Ser Leu Cys Lys Gly Gly Asp Gln Asn
1 5 10 15

Pro Ala Cys Leu Thr Leu Gln Ala Ser Ile Gly Leu Lys Val Ser Ala
20 25 30

Phe Pro Val Ala His Leu Pro Gly Arg Arg Ser Lys Phe Gln His Thr
35 40 45

Ala Pro Tyr Ser Glu Gly Ala Asp Gln Cys Ile
50 55

<210> 115
<211> 57
<212> PRT
<213> Homo sapien

<400> 115

Met Leu Cys Ala His Phe Ser Asp Gln Gly Pro Ala His Leu Thr Thr
1 5 10 15

Ser Lys Ser Ala Phe Leu Ser Asn Lys Lys Thr Ser Thr Leu Lys His
20 25 30

Leu Leu Gly Glu Thr Arg Ser Asp Gly Ser Ala Cys Asn Ser Gly Ile
35 40 45

Ser Gly Gly Arg Gly Arg Lys Ile Pro
50 55